

RAW SEQUENCE LISTING

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Application Serial Number: 101532,264
Source: PCT
Date Processed by STIC: 4-29-05

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PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/532,264

DATE: 04/29/2005

TIME: 16:38:17

Input Set : A:\082368-004000US.txt

Output Set: N:\CRF4\04292005\J532264.raw

4 <110> APPLICANT: Nakagawa, Yasuko
 5 Ono, Yuichi
 6 Sakamoto, Yoshimasa
 7 Mizuhara, Eri
 8 Nakatani, Tomoya
 9 Takai, Yoshimi
 11 <120> TITLE OF INVENTION: GENE SPECIFICALLY EXPRESSED IN
 12 POSTMITOTIC DOPAMINERGIC NEURON PRECURSOR CELLS
 15 <130> FILE REFERENCE: 082368-004000us
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/532,264
 C--> 17 <141> CURRENT FILING DATE: 2005-04-21
 17 <150> PRIOR APPLICATION NUMBER: PCT/JP03/13420
 18 <151> PRIOR FILING DATE: 2003-10-21
 20 <150> PRIOR APPLICATION NUMBER: JP 2002-307573
 21 <151> PRIOR FILING DATE: 2002-10-22
 23 <160> NUMBER OF SEQ ID NOS: 28
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 2876
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Mus musculus
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 35 tggagggaa ccagtgcac cctaaactcta cgagatctt gggcacacac actcggatg 180
 36 ctggcctccg ccctcctcgt ttcccttgc tgtttcaaag gacatgcagg ctcatcgccc 240
 37 catttcctac aacagccaga ggacatggtg gtgctgttgg gggaggaagc ccggctgccc 300
 38 tgcgctctgg ggcgtacag ggggctcgtg cagtggacta aggatgggtt ggctctaggg 360
 39 ggcgaaagag accttcagg gtggtcccgg tactggatc cggggattc agccagtggc 420
 41 cagcatgacc tccacattaa gcctgtggaa ttggaaatgt aggcacatcgtt tgagtgccag 480
 42 gcttcgcaag caggtctccg atcacgacca gccaactgc acgtgtatgtt ccccccaagaa 540
 43 gctccccagg tactaggcgg cccctctgtg tctctgggtt ctggagttcc tggaaatctg 600
 44 acctgtcggg gtcgtgggaa ttcccgaccc tcccctgaac tactgtgttt ccgagatggg 660
 45 atccggctgg atgcgagcag ctccaccag accacgtga aggacaaggc cactggaaaca 720
 46 gtggaaaaca ccttattcct gaccccttcc agtcatgtatg atggcgccac cttgatctgc 780
 47 agagcgcgaa gccaggccct gcccacaggg agggacacag ctgttacact gaggccttcag 840
 48 tatcccccaa tggtgactct gtctgtcgtg ccccaactg tgcaggaggg agagaagggtg 900
 49 actttcctgt gtcaagccac tgcccaactc cctgtcactg gctacaggtt ggcgaagggg 960
 50 ggtatccccgg tgctcggggc acgtgggcca aggttggagg tggcgtcaga tgccacttcc 1020
 51 ctgactgagc cggtgtccctg cgaggtcagc aacgcggcgtc gaagcgccaa ccgcagcagc 1080
 52 ggcgtgaaag tggtgatgg acccattctg caggcaaaaac ctaagtccgt gtccgtggac 1140
 53 gtggggaaag atgcctcctt cagctgtgtc tggcgccggaa acccacttcc acggataacc 1200
 54 tggacccgca tgggtggctc tcaggtgctg agctccgggc ccacgctgctg gcttccgtcc 1260

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55 gtggcactgg aggatgcggg cgactatgtt tgcagggctg agccgaggag aacgggtctg 1320
56 ggaggcggca aagcgcaggc gaggctgact gtaacgcac cccctgttagt gacagccctg 1380
57 caacctgcac cagccttct gagggtcct gtcgcctcc agtgtgtggt gttgcctcc 1440
58 cctgccccag actcgggtgt ttggtcttgg gacgagggtct tttggaggc aggctcaactg 1500
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63 gtcatcaactg gagtggtcct ctgtgtctgg cgcctggct ctctctctaa gaaaaagaac 1800
64 ttggtccgga tcccaggaaag cagcgggtt tccagttcac gtggccctga ggaggagaca 1860
65 ggcagcgtg aggaccgggg tccattgtt cacaccgacc acagtgtt ggttcttgag 1920
66 gaaaaagagg ctctggagac aaaggatcca accaacggtt actacaagg tgcaggggtc 1980
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68 ccgatcggtc tcccaggac tccacttac tatgacttca agccacatct ggacttagtc 2100
69 cttccctgca gactgtacag akgcggggca gttatctt ccacccccc tccccgtgcc 2160
70 ttcaccagct acatgaaacc cacatcctt ggaccccccag atttgagctc tggactccc 2220
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74 gggaaagatc attacaagca tcaggactgt tggtgacac tcaagttcagc caaagtggat 2460
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76 aatgactaaa tactttgcag agggacaaag atggaaacta gggatacggg tggaaatgt 2580
77 agagaagata tatgaccatc tgcatcaaga ggaaggataa catatgacaa atcaagatga 2640
78 aagaaataat ccacccccc cccaccgcgt cctggccaaat aagtatagcc tacatggctg 2700
79 ttcattatct gggacacaaa atggccacta tcttgactcc ttccttaaag atacagaaag 2760
80 aattgaatcc aaggaaatggg gttaggtggg aatagaagaa atgaaggggc ctcttggct 2820
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84 <211> LENGTH: 2243
85 <212> TYPE: DNA
86 <213> ORGANISM: Mus musculus
88 <400> SEQUENCE: 2
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90 gaaaaggattt ggagggaaac cagtgcacc ctaactctac gagatcttgg ggtacacaca 120
91 ctcggatgc tggcctccgc ctcctcggtt ttccttgc gtttcaaagg acatgcagg 180
92 tggccccgtt actggatattt gggaaattca gccagtgcc agcatgaccc ccacattaag 240
93 cctgtggat tggaaatgtt ggcattgtat gagtgcagg cttcgcaccc aggtctccga 300
94 tcacgaccag cccaaactgca cgtgatggc ccccccagaag ctcccccaggt actaggcggc 360
95 ccctctgtgt ctctgggtgc tgagttcctt gaaatctga cctgtcgagg tgcgtgggat 420
96 tcccgacactg cccctgaact actgtggttc cggatggg tccggcttgg tgcgagcagc 480
97 ttcaccacca ccaacgttggaa gggacacggc actggaaacag tggaaaacac cttattcttg 540
98 accccttcca gtcatgttgc tggccacc ttgatctgca gagcgcgaag ccaggccctg 600
99 cccacaggaa gggacacacgc ttttacactg agccttcaat atcccccaat ggtactctg 660
100 tctgtgcggc cccagactgtt gcaaggaggaa gagaagggtt tttctgttgc tcaagccact 720
101 gcccagcctc ctgtcaactgg ctacagggtgg gcaagggggg gatccccgtt gtcggggca 780
102 cgtggggccaa ggttggagggt ctgtgcagat gcaacttcc tggatgttgc ggttgccttgc 840
103 gaggttcggca acgcggctgg aagcggccaa cgcggccacgg cgctggaaat gtttatgg 900
104 cccattctgc aggcaaaacc taagtccgtt tccgtggac gggggaaaga tgcctccctc 960
105 aactatgttgc qqcqccqggaa cccacttcca cggataaccc ggacccggcat ggggtggctct 1020

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 107 gactatgtat gcagggctga gcccaggaga acgggtctgg gaggcggcaa agcgcaggcg 1140
 108 aggctgactg tgaacgcacc ccctgttagtg acagccctgc aacctgcacc agccttctg 1200
 109 aggggtcctg ctcgcctcca gtgtgtggg tttgcctccc ctgcggcaga ctgggtggg 1260
 110 tggcttggg acgaggggctt cttggaggca ggctcaactgg gcaggttcct agtggaaagcc 1320
 111 ttcccagccc cggaagtggg ggggggacag ggcctggcc ttatttctgt gctacacatt 1380
 112 tcggaaaccg aggagtccga ctttaccacc ggctcaact gcagtgcgg caaccggcta 1440
 113 ggagagggac gagtcagat ccacttggc ctagagatt tgctgcctac tgccggatt 1500
 114 gtggctggg cagcatctgc agccacctt ctccttatgg tcatactgg agtggtcctc 1560
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 116 agcgagggtt ccagttcacg tggccctgag gaggagacag gcagcagtga ggaccggggt 1680
 117 cccattgtgc acaccgacca cagtgattt gttcttgagg aaaaagaggc tctggagaca 1740
 118 aaggatccaa ccaacgggta ctacaagggtt cgagggtca gtgtgagcct tagccttggg 1800
 119 gaagctcctg gaggaggcct cttcttgcca cgcgcctctc cgatcggtc cccagggact 1860
 120 cctacttact atgacttcaa gccacatca gacttagtcc ctcctgcag actgtacaga 1920
 121 gcgaggcag gttatcttac caccggccat cccctgcct tcaccagcta catgaaaccc 1980
 122 acatccttg gaccggcaga tttgagctct ggaactcccc cttccctgt tgctacctt 2040
 123 tctccaccca gccaccagcq tctccagact catgtgtgaa tccatctctc caagtgaagg 2100
 124 gtcttggaaat cttctgtttt ccatatagtg tggccagat atttctggg agtcagaaca 2160
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 129 <211> LENGTH: 700
 130 <212> TYPE: PRT
 131 <213> ORGANISM: Mus musculus
 133 <400> SEQUENCE: 3
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 136 Ala Gly Ser Ser Pro His Phe Leu Gln Gln Pro Glu Asp Met Val Val
 137 20 25 30
 138 Leu Leu Gly Glu Glu Ala Arg Leu Pro Cys Ala Leu Gly Ala Tyr Arg
 139 35 40 45
 140 Gly Leu Val Gln Trp Thr Lys Asp Gly Leu Ala Leu Gly Gly Glu Arg
 141 50 55 60
 142 Asp Leu Pro Gly Trp Ser Arg Tyr Trp Ile Ser Gly Asn Ser Ala Ser
 143 65 70 75 80
 144 Gly Gln His Asp Leu His Ile Lys Pro Val Glu Leu Glu Asp Glu Ala
 145 85 90 95
 146 Ser Tyr Glu Cys Gln Ala Ser Gln Ala Gly Leu Arg Ser Arg Pro Ala
 147 100 105 110
 148 Gln Leu His Val Met Val Pro Pro Glu Ala Pro Gln Val Leu Gly Gly
 149 115 120 125
 150 Pro Ser Val Ser Leu Val Ala Gly Val Pro Gly Asn Leu Thr Cys Arg
 151 130 135 140
 152 Ser Arg Gly Asp Ser Arg Pro Ala Pro Glu Leu Leu Trp Phe Arg Asp
 153 145 150 155 160
 154 Gly Ile Arg Leu Asp Ala Ser Ser Phe His Gln Thr Thr Leu Lys Asp
 155 165 170 175
 156 Lys Ala Thr Gly Thr Val Glu Asn Thr Leu Phe Leu Thr Pro Ser Ser

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157	180	185	190
158	His Asp Asp	Gly Ala Thr Leu Ile Cys Arg Ala Arg	Ser Gln Ala Leu
159	195	200	205
160	Pro Thr Gly Arg Asp	Thr Ala Val Thr Leu Ser	Leu Gln Tyr Pro Pro
161	210	215	220
162	Met Val Thr Leu Ser Ala	Glu Pro Gln Thr Val	Gln Glu Gly Glu Lys
163	225	230	235
164	240	245	255
165	Val Thr Phe Leu Cys Gln Ala Thr Ala	Gln Pro Pro Val Thr	Gly Tyr
166	255	260	270
167	Arg Trp Ala Lys Gly Gly Ser Pro Val	Leu Gly Ala Arg Gly	Pro Arg
168	270	275	285
169	Leu Glu Val Val Ala Asp Ala Thr Phe Leu Thr	Glu Pro Val Ser Cys	
170	285	290	295
171	300	305	310
172	315	320	325
173	325	330	335
174	335	340	345
175	350	355	360
176	365	370	375
177	380	385	390
178	395	400	405
179	410	415	420
180	425	430	435
181	440	445	450
182	455	460	455
183	460	465	470
184	475	480	475
185	485	490	485
186	495	500	505
187	510	515	520
188	525	530	535
189	540	545	550
190	555	560	565
191	560	570	575
192	575	580	585
193	585	590	595
194	595	600	605
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196	615	620	625
197	625	630	635
198	635	640	645
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201	665	670	675
202	675	680	685
203	685	690	695
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206 Asp Leu Val Leu Glu Glu Lys Glu Ala Leu Glu Thr Lys Asp Pro Thr
207 580 585 590
208 Asn Gly Tyr Tyr Lys Val Arg Gly Val Ser Val Ser Leu Ser Leu Gly
209 595 600 605
210 Glu Ala Pro Gly Gly Leu Phe Leu Pro Pro Pro Ser Pro Ile Gly
211 610 615 620
212 Leu Pro Gly Thr Pro Thr Tyr Tyr Asp Phe Lys Pro His Leu Asp Leu
213 625 630 635 640
214 Val Pro Pro Cys Arg Leu Tyr Arg Ala Arg Ala Gly Tyr Leu Thr Thr
215 645 650 655
216 Pro His Pro Arg Ala Phe Thr Ser Tyr Met Lys Pro Thr Ser Phe Gly
217 660 665 670
218 Pro Pro Asp Leu Ser Ser Gly Thr Pro Pro Phe Pro Tyr Ala Thr Leu
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221 690 695 700
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225 <211> LENGTH: 650
226 <212> TYPE: PRT
227 <213> ORGANISM: Mus musculus
229 <400> SEQUENCE: 4
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232 Ala Gly Trp Ser Arg Tyr Trp Ile Ser Gly Asn Ser Ala Ser Gly Gln
233 20 25 30
234 His Asp Leu His Ile Lys Pro Val Glu Leu Glu Asp Glu Ala Ser Tyr
235 35 40 45
236 Glu Cys Gln Ala Ser Gln Ala Gly Leu Arg Ser Arg Pro Ala Gln Leu
237 50 55 60
238 His Val Met Val Pro Pro Glu Ala Pro Gln Val Leu Gly Gly Pro Ser
239 65 70 75 80
240 Val Ser Leu Val Ala Gly Val Pro Gly Asn Leu Thr Cys Arg Ser Arg
241 85 90 95
242 Gly Asp Ser Arg Pro Ala Pro Glu Leu Leu Trp Phe Arg Asp Gly Ile
243 100 105 110
244 Arg Leu Asp Ala Ser Ser Phe His Gln Thr Thr Leu Lys Asp Lys Ala
245 115 120 125
246 Thr Gly Thr Val Glu Asn Thr Leu Phe Leu Thr Pro Ser Ser His Asp
247 130 135 140
248 Asp Gly Ala Thr Leu Ile Cys Arg Ala Arg Ser Gln Ala Leu Pro Thr
249 145 150 155 160
250 Gly Arg Asp Thr Ala Val Thr Leu Ser Leu Gln Tyr Pro Pro Met Val
251 165 170 175
252 Thr Leu Ser Ala Glu Pro Gln Thr Val Gln Glu Gly Glu Lys Val Thr
253 180 185 190
254 Phe Leu Cys Gln Ala Thr Ala Gln Pro Pro Val Thr Gly Tyr Arg Trp
255 195 200 205
256 Ala Lys Gly Gly Ser Pro Val Leu Gly Ala Arg Gly Pro Arg Leu Glu
257 210 215 220

VERIFICATION SUMMARY

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L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date